

(1) Number of pages _____

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MADRAS RECORD OFFICE

Government of Madras

Public works DEPARTMENT

G.O. No.	130	Press
B.P. No.		Mis
2576259		
Dated	20-1-	1874.

Not to be folded or roughly handled

Read the following letters:—

No. 257. From Captain J. L. L. MORANT, R.E., District Engineer, Neilgherries, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Ootacamund, 15th November 1873, No. 208.

I HAVE the honour to forward an estimate, amounting to Rupees 4,210, for providing the masonry work for the gates and rails, and for diverting Mr. McIvor's road at the entrance to the Government Botanical Gardens at Ootacamund.

2. The Contractor who provided the cut granite stone for the garden gate pillars will not supply similar ones for Mr. McIvor's gate pillars at the same price, as he states (as I believe truly) that the rate he first agreed upon does not pay him. I have therefore entered Rupees 365 for the latter instead of Rupees 330.

3. All the other rates are the usual district rates. I have added 10 per cent. to the estimate to cover the taking down of old work and of alterations, etc., while the work was in progress. Every care has been taken to reduce the estimate to the lowest figure.

4. I refrain from any other remarks as you have seen the ground, etc., and as I shall see you shortly.

No. 258. From the same Officer, dated Ootacamund, 29th November 1873, No. 216.

I HAVE the honour to submit a detailed estimate for the work lately executed at the entrance of the Government Gardens here. It amounts to Rupees 3,635-1-8.

2. I beg to be allowed respectfully to remind you that you were good enough to take this work under your own direction, for doing which I beg to offer you my thanks. You are therefore well aware of all the circumstances of the case. I beg however to be allowed to bring them to your remembrance.

3. The ground at the entrance of the Government Gardens twenty-three years ago was a swamp, and was then drained for the first time, and a portion of it silted up to its present level. The foundations were therefore a matter of considerable importance. I did my best to make them strong by laying a wide layer of concrete, 3 inches or more thick, to secure the safety of the walls, which in some cases are 7 feet 4 inches high in all. The entrance to Mr. McIvor's property was situated so awkwardly that here the depth of the foundations became 7½ feet, and every possible care had to be taken by laying the superstructure on a lower course of concrete, then of stone slabs, and lastly of square bricks, to overcome the natural tendency of the ground to yield. On this point, in order to confirm my own opinion, I beg to append an official letter from W. G. McIvor, Esq., who is the only person in Ootacamund who has knowledge of the original form of the garden's entrance.

4. Regarding the earthwork of Mr. McIvor's road, I beg to inform you that I have merely entered the amount which it has already cost, together with what is required to complete it, allowing for wear and tear of tools and for superintendence of a Jemadar, Havildar and others, including the removal of trees, etc. Water is also now being passed over the road to consolidate it.

*Proceedings of the Madras Government, Public Works Department,
20th January 1874.*

5. I have entered the contingencies at 10 per cent., in order to cover the cost of pulling down old work done under orders from the Commissioner, and of alterations, etc., done when the new work was under construction.

6. I beg you will allow me, in conclusion, respectfully to remind you of the reasons which prevented my submitting the estimate sooner. I was only apprised of the direction of the southern wall on the 13th October, just as I was starting for Goodaloor with the Inspecting Engineer for Ports and Communications, and the form of the upper wall was not settled until three or four days before you left Ootacamund, a day or two after which I sent you in the estimate which you requested me to revise. The revised estimate I now respectfully beg to submit with the hope that it will meet with your approval.

From W. G. McIVOR, Esq., Superintendent of Government Cinchona Plantations, to Captain J. L. L. MORANT, R.E., District Engineer, Neilgherries, dated Ootacamund, 25th November 1873, No. 83.

WITH reference to our conversation this morning regarding the nature of the ground in front of the entrance gate to the Government Garden, I have the honour to inform you that twenty-three years ago this land was a swamp, and then drained for the first time and a portion of it silted up to its present level. In throwing out the foundations lately cut for the semi-circular walls in front of the buildings at the entrance gate I did not observe that in any instance you had passed through the peaty clay, and in several parts there were springs of water rising in the excavations for the foundations.

No. 258A.

MEMORANDUM.

THE Executive Engineer in charge of the Neilgherry District has now submitted an estimate of Rupees 3,635 for completing the entrance to the Government Garden at Ootacamund, consisting of the following items, viz. :—

	RS.	A.	P.
Entrance gates	576	13	3
Enclosure walls and pillars	2,003	6	8
Mr. McIvor's new approach, etc.	571	4	0
Painting	79	15	2
Sundries, 10 per cent	328	8	11
Carriage of gates and rails...	75	1	8
Total...	3,635	1	8

Of these items the following sums would have been charged for carrying out the work as planned before the diversion of Mr. McIvor's road was determined on, viz. :—

	RS.	A.	P.
Entrance gates	576	13	3
Enclosure walls	604	14	9
Sundries, 10 per cent	118	4	0
Carriage of gates, etc.	1,300	0	0
	75	0	0
Total...	1,375	0	0

leaving Rupees 2,260 as the extra cost incurred by diverting Mr. McIvor's road, and making the entrance enclosures symmetrical on each side.

*Proceedings of the Madras Government, Public Works Department,
20th January 1874.*

Had the estimate been supplied within a reasonable time after the date mentioned in the last paragraph of Captain Morant's letter, considerable reductions would have been made in the excessive depth of foundations and in the nature of the material used in the same. At present nothing can be done as the work is all but completed. It will be admitted that what has been carried out is the right thing, and that a lamentable failure has been averted.

MADRAS,
2nd December 1873.

(Signed) G. W. WALKER, Colonel, R.E.,
Chief Engineer.

No. 259. ORDER THEREON, 20th January 1874, No. 130.

CIVIL WORKS, No. 15.

WHILE admitting, with the Chief Engineer, that the new entrances to the Government Gardens have now been

laid out in the only manner calculated effectively to utilize the iron gates and railings procured for the purpose from England, to harmonize with the seed-house and herbarium previously constructed, and to give a symmetrical finish which was greatly wanted to that portion of the ground, His Excellency the Governor in Council is greatly dissatisfied with the extravagant cost of the work, which appears due to depth of foundations quite disproportionate to the superstructure, and to the use in such foundations of first-class bricks in mortar where the cheapest bricks laid in clay would have sufficed. Taking into consideration the excessive cost of various works which have lately been carried out by the District Engineer of the Neilgherries either without estimate or without timely submission of the same, notably the water-supply channel, the new cooking ranges at Wellington, and this garden approach, His Excellency in Council must insist on the absolute enforcement in future of the departmental rule which provides that no work shall be undertaken without estimate and sanction; and he will hold the Chief Engineer and Inspecting Engineer for Buildings answerable in future that such estimates as are submitted do not provide either for unnecessary work, or the use of materials of unnecessarily good quality and high price.

2. With these remarks the estimate of Rupees 3,635 is sanctioned, and provided with funds by transfer from—

	RS.
Koiloontla Cutcherry—Budget Item No. 44...	2,000
Cumbum do. Do. No. 45...	1,635

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,

Secretary to Government.

To the District Engineer,
Inspecting Engineer for Buildings,
Officiating Controller of Public Works Accounts.

Exd. S. T. Austin.
Spare Copies

No 208

Potacamund
District Engineers Office
15th November 1873

From

The District Engineer
Neilgherries

To

The Chief Engineer
and Secretary to Government
D. P. W.

Sir

I have the honor to forward an estimate amounting to Rs 4,210 for providing the masonry work for the gates and rails and for diverting Mr McEvers road at the entrance to the Government Botanical Gardens at Potacamund.

2. The Contractor who provided the cut granite stone for the garden gate pillars will not supply similar ones for Mr McEvers gate pillars at the same price as he states (as I believe truly) that the rate he first agreed upon does not pay him. I have therefore entered Rs 365 for the latter instead of Rs 330.

3. All the other rates are the usual District rates. I have added 10 per cent to the estimate to cover the taking down of old work and of alterations &c while the work was in progress. Every care has been taken to reduce the estimate to

to the lowest figure.

4. I refrain from any other remarks as you have seen the ground &c and as I shall see you shortly.

I have the honor to be
Sir
Your most obedt. Servt.
Jes. Morant. Capt. R.E.
District Engineer

Government Gardens
Potaamund 25th November 1873

N^o 89

From W. G. McIvor Esq
Supt. Govt. Chinchona Plantations

To Captain J. L. L. Morant R.E.
District Engineer Nilghevries
Potaamund

Sir With reference to our conversation
this morning regarding the nature of the
ground in front of the Entrance Gate to the
Government Garden I have the honor to inform
you that 23 years ago this land was a
swamp and then drained for the first time
and a portion of it silted up to its present
level. In throwing out the foundations
lately cut for the Semi-circular walls
in front of the buildings at the Entrance
Gate I did not observe that in any
distance you had passed through the
heavy clay, and in several parts there
were springs of water rising in the excavations
for the foundations.

I have the honor to be
Sir
Your most obed^t serv^t
W. G. McIvor
Supt. Govt. Chinchona Pla

(True copy)

J. L. L. Morant
Capt. R.E.
District Engineer

P. M. 1873 10th November
Mr. J. L. L. Morant
Potaamund

From

The Dist. Engineer

Nilghevries.

Noted 15th 3 Nov 73.
Recd 18th 3 Nov 73.

Ch^o 208.

Electrifying
an estimate of
Rs. 4,270 for work
connected with
the entrance of
Gates way of the
Government
Botanical Gardens
Potaamund.

W. G. McIvor

Rs. 130-20 Aug 74

Dec 1873

11

Detailed Estimate No 63 of 1873/74
Kilgherry District

Constructing Pillars for gates & Basement for
ails and diverting Mr. McEvers' Road at the Entrance
Government Botanical Gardens Potacumund

Particulars.
Entrance Gate to Garden

Concrete
 1.6 3.6 12.3 Concrete below foundation of Centre Pillars
 1.6 3.6 5.3 do do of Side do
 2 2 6 2 do do

19.6 Cubic ft
 3/4 Cubic Yards Concrete below foundation

3.6 3.6 3 73.6 Foundation to Centre Pillars
 1.6 3.6 3 31.6 do to side do
 2 2 2 8 do

113 Cubic ft Brick in Mortar Foundation

Basement
 2.9 2.9 13 18.9 10 1/2 Basement to Centre Pillars
 1.2 2.9 13 8.9 do to side do
 2.3 2.3 6 60.9 Superstructure to Centre do
 1.2 2.3 5.9 30 2.3 do to side do

117.9 4 1/2
 6.9 4 1/2 Deductions

111 Cubic ft. Brick in Mortar Base of Superstructure

Plastering
 11 1.4 29.4 Basement of Centre Pillars
 5.2 1.4 13.9 4 do of side do

43.1 4 Square ft Plastering with Chumam

Painting
 2 9 6 108 Centre Pillars
 2 4.7 5.9 52.8 1/2 Side do
 6 12.6 2 12.6 Around sides of Hollow

173.2 1/2 Square ft Painting with Chumam

Gate
 3.4 3.4 2.2 2 Caps to Centre Pillars
 3.4 1.8 1.3 2 do to side do
 1 1 1 2 For Gate Locks
 1 9 9 8 do do Hinges top
 9 9 9 5 do do do bottom

19 Cubic ft Granite Stone for Gate Pillars

30 ft overhead including line of piping &c
 Cost of Repairing Iron gates
 5 Cubic Yards Excavating Foundation

Call to Garden etc

1 133 2.9 3 91.5.3 Concrete below foundation of Wall & Rails
 1 100 2.9 3 68.9 do do do do
 1 18 4 1 72 do do of Gate Pillars & Wall
 1 3.6 3.6 6 6.1.6 do do do
 238.34 Cubic ft

9 Cubic Yards Concrete below foundations

1 24.9 2.3 1.6 83.6.42 Foundation to Left Wall & Rails
 1 33 2.3 2 148.6 do do do do
 1 14 2.3 2.6 78.9 do do do do
 1 30 2.3 2.3 157.10.6 do do do do
 1 32.6 2.3 2 146.3 do do do do
 1 24.9 2.3 1.6 83.6.42 do do Right Wall do
 1 13 2.3 2 58.6 do do do do
 1 13 2.3 3 87.9 do do do do
 1 13 2.3 3.6 102.4.6 do do do do
 1 13 2.3 4 117 do do do do
 1 52 2.3 4.6 226.6 do do do do
 1 3.6 3.6 6 73.6 do do Gate Pillars
 2 3.6 3.6 7.6 183.9 do do do
 1 11 2.3 7.6 183.7.6 do do Wall

1727.54 Cubic ft Brick in Mortar Foundation

1 133 1.8 1 221.8 Basement to Left Wall & Rails 1st Course
 1 133 1.2 1 155.2 do do do do 2nd do
 1 24.9 9 1.10 34.42 Superstructure to Wall
 1 32.6 9 1.10 44.8.3 do do do
 1 24.9 8 6 8.3 Coving do do
 1 32.6 8 6 10.10 do do do
 1 24.9 1.3 3 7.8.9 do do do
 1 32.6 1.3 3 10.1.10 do do do
 1 24.9 4 3 2.9 do do do
 1 32.6 4 3 2.8.6 do do do
 2 24.9 2.2 3 2.6 11.4 Cornice
 2 32.6 2.2 3 3.4 7.2 do do do
 1 100 1.8 1 166.8 Basement to Right Wall & Rails 1st Course
 1 100 1.2 1 116.8 do do do do 2nd do
 1 24.9 9 1.10 34.42 Superstructure to Wall
 1 24.9 8 6 8.3 Coving do do do
 1 32.6 1.3 3 7.8.9 do do do

1 24.9 4 3 2.9 Coving to Wall
 2 24.9 2.2 3 5.1.9 Cornice
 3 8 3 1 27 Basement to Pillars 1st Course
 3 2.6 2.6 1 18.9 do do 2nd do
 3 2 2 6 7.2 Superstructure to Pillars
 1 11.6 1.8 1 19.2 Basement to Wall 1st Course
 1 12 1.2 1 14 do do 2nd do
 2 12.6 9 1.10 34.4.6 Superstructure to Walls
 2 12.6 1.3 3 7.9.9 Coving do do
 2 12.6 8 6 8.4 do do do
 2 12.6 8 6 8.4 do do do
 4 12.6 2.3 3 2.7.3 Cornice

1049.11.42 Cubic ft Brick in Mortar, Base & Superstructure
 (Plastering)

2 133 1.7 1.1 288.2 Basement
 2 100 1.1 216.8 do do
 2 24.9 2.6 123.9 Coving to Walls
 1 32.6 2.6 87.3 do do
 2 12 2 48 Basement to Pillars
 1 12 2 24 do do do
 4 12 2 96 do do to Walls
 2 12 2.6 60 Coving to Walls

937.10 Square ft Plastering with Chumau

4 24.9 1.1 107.3 Walls
 4 24.9 1.10 181.6 do above
 6 9 2.6 9.4.6 Ends of Wall
 2 32.6 1.1 70.6 Walls
 2 32.6 1.10 119.2 do above
 2 75 2.9 412.6 Walls to Rails
 3 8 7.1 170 Pillars
 4 12 2.1 140 Walls

1218.62 Square ft Pointing with Chumau

1 18 4 1 72 Cubic ft Stone in Mortar for Foundations
 1 18 4 1 72 do filling Foundation with 1 ft Square Bricks
 6 6 6 96 Cut granite stones for Rails
 96 lbs of Lead including line of piping
 Cost of Repairing Iron Rails
 3 3 2.2 3 Brick in Mortar Caps for Gate Pillars
 including Cornices, Plastering &c
 1 9 9 9 4 Granite Stone for Gate Hinges top
 9 9 9 3 do do do bottom
 7 Cut granite Stones for Gate Hinges
 20 lbs of Lead including line of piping
 89 Cubic Yards Excavating Foundation

Call work

1 54	10	4	2160	
1 50	17 1/2	3 1/2	3062 1/2	
1 50	17 1/2	3 1/2	3062 1/2	
1 50	17 1/2	3 1/2	2843 1/2	
1 50	18	3	2700	
1 50	18	2	1800	
1 50	18	1 1/2	1350	
1 50	18	8	720	
1 50	18	9	8100	
1 50	17 1/2	7 1/2	6562	
1 20	4	6	480	
1 140	3	3	1260	
				Celevation
				Catch Drain
				Cubic ft
				Cubic Yards
				Part work
1 120	12	3	1260	
				Cubic ft
				Cubic Yards
				Gravelling
2 284	4	2032		
1 140	16	2240		
				Square ft
				Square Yards
				Turfing
20	2	2	1	
				Rough Stone Drain
				Square ft
				Painting with Carson's Paint
				2 Coats

J. H. Morris
Capt
District Engineer

10216
Potacamund
District Engineer's Office
29th November 1873
From The District Engineer
Neilgheries
To The Chief Engineer &
Secretary to Govt. D. P. W.
Madras

Sir I have the honor to submit a detailed estimate for the work lately executed at the entrance of the Government Gardens here. It amounts to Rs 3635-1-8

I beg to be allowed respectfully to remind you that you were good enough to take this work under your own direction for doing which I beg to offer you my thanks. You are therefore well aware of all the circumstances of the case. I beg however to be allowed to bring them to your remembrance.

The ground at the entrance of the Government Gardens 23 years ago was a swamp and was then drained for the first time, and a portion of it silted up to its present level. The foundations were therefore a matter of considerable importance. I did my best to make them strong by laying a wide layer of concrete 3 inches or more thick to secure the safety of the walls which in some cases are 7 feet 4 inches high in all. The entrance to Mr. McIlvor's property was situated so awkwardly that here the depth of the foundations became 7 1/2 feet and every possible care had to be taken by laying the superstructure on a lower course of concrete, then of stone slabs, & lastly of square bricks to overcome the natural tendency of the ground to yield. On this point in order to confirm my own opinion I beg to append an official letter from Mr. G. McIlvor here who is the only person in Potacamund who has knowledge of the original form of the Gardens Entrance.

Received
12/12/73

4. Regarding the earthwork of Mr. McLoon's road I beg to inform you that I have merely entered the amount which it has already cost together with what is required to complete it, allowing for wear and tear of tools and for superintendence of a Jemadar Havildar and others including the removal of trees &c. Water is also now being passed over the road to consolidate it.

5. I have entered the contingencies at 10 per cent in order to cover the cost of pulling down old work done under orders from the Commissioner, and of alterations &c. done when the new work was under construction.

6. I beg you will allow me in conclusion respectfully to remind you of the reasons which prevented my submitting the estimate sooner. I was only apprised of the direction of the southern wall on the 13th October just as I was starting for Goudaloor with the Surveying Engineer for port of communication, and the form of the upper wall was not settled until 3 or 4 days before you left Poona around a day or two after which I sent you in the estimate which you requested me to revise. The Revised estimate I now respectfully beg to submit with the hope that it will meet with your approval.

I have the honor to be

Yours most obedt. Servt

J. M. Morant
District Engineer

19
 With reference to note
 by H. E. The President in
 Council the Secretary
 begs to explain that
 the Public Works
 Com. cannot consider
 its integrity is quite
 subversive of all such
 irregular transactions
 that would be
 in - and of course in
 cases like the present,
 and that of the Lake
 Road, when Executive
 Officers of the P.W. Dept.
 carry out works pro-
 posed by Municipal
 or Revenue Officers for
 which no plans or
 estimates have been

James Forsyth
 Secy. Secy.

Office Works 1873. Re-estimated
 by J. G. Forsyth Secy.
 No 216 of 28. 1871

to Court
 the Secretary's list

J. G. Forsyth
 Secy.

Oct 29th November 93
 Received 1st November 1873.

Inclosures 2

Estimates are submitted
 for the 3635-1-8 for
 work done at entrance
 to Port Botany
 for the 1873-74 season
 for the 1873-74 season

Oct 1873

Oct 1873 - 20th January 74

1873-74

the seedhouse and
 Herbarium

previously prepared.
In this case the Gates
and Railings had been
got out from time,
and changed to the
Revenue Dept. no de-
finite plan of arrang-
ing them in position
having apparently
been executed. I re-
mark that Captain Mo-
rison was engaged
in the attempt to lay
out the entrance ap-
proach, and was
making a very bad
job of it. Col. Walker,
incited thereto by the
Chief Secretary took
the direction of affairs
into his own hands;

and after getting over
all difficulties with
Mr. Mc. Donnell,
whose land was
to be taken in, he gave
Captain Morrison his
final instructions on
the 13th October. That
Officer conducted his
survey submitting his
estimate until the
29th November -
ply indefensible -
But the irregularity
arose in the first in-
stance from under-
taking the work at
all without plan or
estimate; for which
The Public Works Dept.
is not answerable -

on no occasion and
Herbarium.

C No 650

The Govt. order of which
 Draft has been submitted.
 ted, & would do so
 to ensure that Capt.
 Mornant shall not be
 given be allowed scope
 for indulging in
 necessary or too cost-
 ly work, as he is apt
 to do if working with-
 out limitations that
 have undergone pre-
 vious careful scrutiny.

C. M. Walker (J. R.)
 Secy to Govt -

Mudras
 13th Dec 1875

Memo.

The Executive Engineer
 in charge of the Neilgherry
 District has now submit-
 ted an Estimate of Rs. 3635
 for completing the entrance
 to the Govt. Garden at Co-
 tahammed, consisting of
 the following items, viz.

Entrance Gates	Rs. 576-13-3
Enclosure Walls &	2003-6-8
and Pillars -	
M. M. Durr's new	571-4-0
Approach or -	
Painting	79-15-2
Incudries 10 per cent.	328-8-11
Carriage of Dates & Shilts	75-1-8
<u>Total</u>	<u>Rs. 3635-1-8</u>

Of these items the follow-
 ing sums would have

been changed for cost:
- saving out the work as
planned before the di-
- vision of W. M. Dorr's
Road was determined
on, viz:

Entrance Gates. Rs 576-13-3

Inclosure Walls : 604-14-9

Studdies 10 feet set .. 118-4-0

Rs 1300-0-0

Carriage of Gates & .. 75-0-0

Total Rs 1375-0-0

leaving Rs 2260 as the extra
cost incurred by diverting
W. M. Dorr's Road, and
making the entrance in-
closures symmetrical
on each side -

And the Estimates been
supplied within a rea-
- sonable time after the

date mentioned in the
last part. of Capt. Mo-
- rris's letter considerable
reductions would have
been made by in the 4:
- ceptive depth of form:
- dations, and in the
nature of the material
used in the same. At
present nothing can be
done as the work is all
but completed. It will
be admitted that what
has been carried out
is the right thing, and
that a lamentable fail-
- ure has been averted.

C. M. Walker Jd. R. S.
Chief Engineer

Madras - }
2^d Dec 1873. }

and thanks of Mr. McLoon

No 138
Public Works Department

Proceedings of the Madras Government
Read the following

From the Distt Engrs (H. E. No 2168/29th Nov 1873)
Nilgherries.
Print Charge Memo of 2 Dec 73

JK
JL

While admitting, with
the Chief Engineer, that
the new entrances to the
Government Gardens
have ~~now~~ been laid out
in the only manner cal-
culated effectively to
utilize the Iron gates
and Railings procured
for the purpose from
England, to harmonize
with the seedhouse and
Herbarium.

Herbarium previously constructed, and to give a symmetrical finish which was greatly wanted to that portion of ground. His Excellency the Governor in Council is greatly dissatisfied with the extravagant cost of the work, which appears due to depth of foundations quite disproportionate to the superstructure, and to the use in such foundations of first class Bricks in Mortar where the cheapest Bricks laid in Clay would have sufficed. Taking into consideration the

the excessive cost of various works which have lately been carried out by the District Engineer of the Neilgherries either without Estimate or without timely submission of the same, notably the Lake Road, the Water supply channel, the New Cooking Ranges at Wellington, and the Garden Approach. His Excellency in Council must insist on the absolute enforcement in future of the Departmental Rules which provides that no work shall be undertaken without

[Faint handwritten notes, possibly "Received by..."]

17th Nov 1944
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To The D^t Insp^t Inspectors &
 " D^t Insp^t for ss^y ✓
 " Controller with abt^d latte ✓
 Resp^d with S^c 21/1/76

Opp 650/26840
Govt. of 1874  Madras.
PUBLIC WORKS.

To The District Engrs
Kulgherries

Dated

Recd.

Encl. 2

G. O. 20 "Survey" No. 150-0

Recd. 25/9 @ 259

Port. Gardens at Cota-
camund. Passing orders
on letter from the D. C.
Engrs, Kulgherries,
submitting estimate
for work connected
with the entrance &
gates, &c., of the gardens.